AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

1. (Currently Amended) A synthesizer comprising:

a memory, containing a plurality of stored single audio sample points~~samples~~;

means for calculating an output ~~sample~~ signal for each of a plurality of active voices using a plurality of single audio sample points ~~samples~~ selected from the stored single audio sample points ~~samples~~ for each of the active voices, the number of single audio sample points ~~samples~~ selected being defined as an interpolation degree;

wherein the interpolation degree depends upon the number of active voices.

2. (Previously Presented) A synthesizer as claimed in claim 1, wherein the interpolation degree decreases as the number of active voices increases.

3. (Previously Presented) A synthesizer as claimed in claim 1, wherein the interpolation degree decreases non-linearly as the number of active voices increases.

4. (Currently Amended) A synthesizer as claimed in claim 1 wherein the plurality of single audio sample points ~~samples~~ stored in the memory comprise samples of musical notes.

5. (Currently Amended) A synthesizer as claimed in claim 4 wherein the plurality of single audio sample points ~~samples~~ stored in the memory comprise samples of musical notes produced by different musical instruments.

6. (Currently Amended) A synthesizer as claimed in claim 1 wherein the means for calculating an output ~~sample~~ signal is adapted to multiply each selected single audio sample point with a respective filter coefficient obtained from a filter table.

7. (Previously Presented) A synthesizer as claimed in claim 6 wherein the filter table contains coefficients of a truncated sinc function.

8. (Currently Amended) A synthesizer as claimed in claim 1, wherein the synthesizer is a MIDI [[30]] music synthesizer.

9. (Currently Amended) A portable device, comprising a synthesizer including a memory, containing a plurality of stored single audio sample points~~samples~~;

means for calculating an output ~~sample~~ signal for each of a plurality of active voices using a plurality of single audio sample points ~~samples~~ selected from the stored single audio sample points ~~samples~~ for each of the active voices, the number of single audio sample points ~~samples~~ selected being defined as an interpolation degree;

wherein the interpolation degree depends upon the number of active voices.

10. (Currently Amended) A portable device as claimed in claim 9 wherein the portable device is a mobile [[35]] phone.

11. (Previously Presented) A portable device as claimed in claim 9 wherein the portable device is a pager.

12. (Currently Amended) A method of operating a synthesizer having a plurality of single audio sample points ~~samples~~ stored in a memory, the method comprising the steps of:

determining the number of voices that will be active in producing a sound;

determining an interpolation degree on the basis of the number of voices that will be active, wherein the interpolation degree is defined as the number of single audio

sample points ~~samples~~ to be selected from the plurality of single audio sample points ~~samples~~ stored in the memory; and

calculating an output ~~sample~~ signal for each active voice, using the number of said stored single audio sample points ~~samples~~ determined by the interpolation degree.

13. (Original) A method as claimed in claim 12, wherein the interpolation degree decreases as the number of active voices increases.

14. (Original) A method as claimed in claim 12, wherein the interpolation degree decreases non-linearly as the number of active voices increases.

Claims 15-16 (Canceled)